

PRODUCTION CHANGE and SERVICE BULLETIN

Sun

NOTE: INSERT THIS PAGE IN RELATED SECTION OF SUN REPAIR MANUAL

NOVEMBER 1977

Subject

MODIFICATION TO MINIMIZE THE FAILURE RATE OF TRANSISTOR Q1
AND INCREASE THE RELIABILITY OF THE VAT-4D VOLT AMP TESTER.

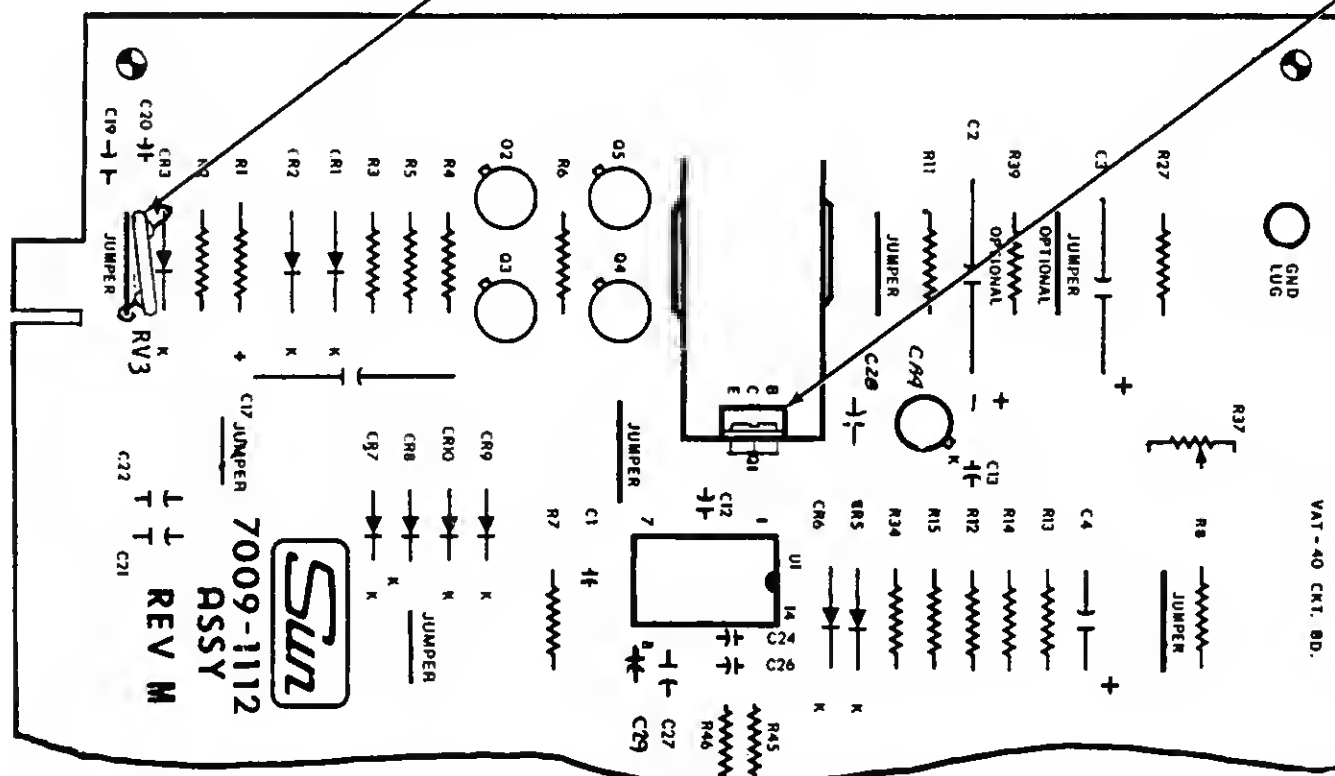
THE 70D9-1112 CIRCUIT BOARD USED IN THE VAT-40 VOLT AMP TESTER HAS BEEN MODIFIED TO DECREASE THE FAILURE RATE OF POWER TRANSISTOR Q1 (PASS REGULATOR). TRANSISTOR Q1 HAS BEEN REPLACED WITH ONE THAT HAS TWICE THE EMITTER-COLLECTOR BREAKDOWN VOLTAGE RATING. VARISTDR RV3 HAS BEEN ADDED ACROSS THE POWER INPUT LEADS (PINS A and B) TO SHUNT ANY VOLTAGE TRANSIENTS ABOVE 68 VOLTS.

TO MINIMIZE THE FAILURE RATE OF Q1 AND INCREASE THE RELIABILITY OF THE VAT-4D VOLT AMP TESTER MAKE THE DESCRIBED MODIFICATIONS LISTED BELOW.

CHANGE TRANSISTOR Q1

FRDM ---- D776-D233 ---- (2N61D9) ---- V_{ceo} 50 VOLTSTO ---- 0776-D253 ---- (2N6476) ---- V_{ceo} 120 VOLTS

ADD VARISTDR RV3

BETWEEN ANODE OF CR3 AND INBOARD END OF ADJACENT JUMPER
D749-D209 ---- 68 VOLTS @ 1 ma D.C. ---- (GE #V68ZA1D)

VAT-4D CIRCUIT BOARD 7009-1112 REV "M" OR LATER WILL INCORPORATE THESE CHANGES.